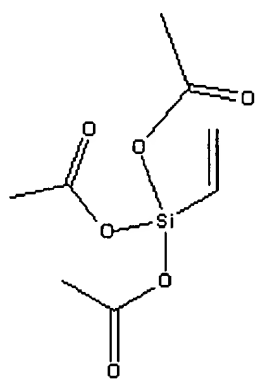


Enter a Chemical Name, CAS Number, Molecular Formula or Weight.  
Use \* for partial names (e.g. ben\*).  
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Vinyltriacetoxy-silane [4130-08-9]

Synonyms: Triacetoxy(vinyl)silane; Vinyltriacetoxy-silane;

	<b>Tools</b>	<b>OpenChem</b>
	<a href="#">BUY AT CHEMACK.COM</a> <a href="#">VIEW CHEMDRAW STRUCT</a> <a href="#">VIEW CHEM3D MODEL</a>	<a href="#">VIEW LINKS</a> <a href="#">ADD COMPOUND</a> <a href="#">ADD/CHANGE PROPERTY</a> <a href="#">ADD LINK</a>
	<b>CAS RN Lookup</b>	
	<a href="#">THE MERCK INDEX</a> <a href="#">NCI DATABASE</a>	

Formula  $C_8H_{12}O_6Si$

CAS RN 4130-08-9

ACX Number X1027373-3

Density 1.16

Refractive Index

Evaporation Rate

Flash Point (°C) 80

DOT Number

Comments

Molecular Weight 232.2652

Melting Point (°C) 7

Boiling Point (°C) 112 at 13 mm Hg

Vapor Density

Vapor Pressure

Water Solubility

EPA Code

RTECS

More information about the chemical is available in these categories:

Health (1)

8(e) TRIAGE Chemical Studies Database

Misc (1)

Petrarch

VTA5

9)

Information about this particular compound

Physical Properties (4)

ABCR GmbH&Co KGVinyl triacetoxysilaneVinyltriacetoxysilane, colorless liq.VinyltriacetoxysilaneNIST Chemistry WebBookInformation about this particular compound

Trading (2)

Available Chemicals ExchangeInformation about this particular compoundChemhunting

Enter a Chemical Name, CAS Number, Molecular Formula or Weight.

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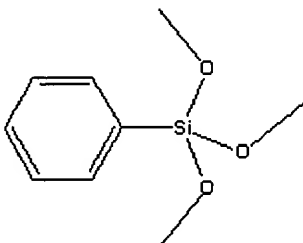
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Enter a Chemical Name, CAS Number, Molecular Formula or Weight.  
Use \* for partial names (e.g. ben\*).  
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Phenyltrimethoxysilane [2996-92-1]

Synonyms: Phenyltrimethoxysilane; Trimethoxyphenylsilane;

	<b>Tools</b>	<b>OpenChem</b>
	<a href="#">BUY AT CHEMACK.COM</a> <a href="#">VIEW CHEMDRAW STRUCT</a> <a href="#">VIEW CHEM3D MODEL</a>  <b>CAS RN Lookup</b> <a href="#">THE MERCK INDEX</a> <a href="#">NCI DATABASE</a>	<a href="#">VIEW LINKS</a> <a href="#">ADD COMPOUND</a> <a href="#">ADD/CHANGE PROPERTY</a> <a href="#">ADD LINK</a>

Formula	C <sub>9</sub> H <sub>14</sub> O <sub>3</sub> Si	Molecular Weight	198.2938
CAS RN	2996-92-1	Melting Point (°C)	
ACX Number	X1007365-5	Boiling Point (°C)	
Density		Vapor Density	
Refractive Index		Vapor Pressure	
Evaporation Rate		Water Solubility	
Flash Point (°C)		EPA Code	
DOT Number		RTECS	
Comments			

More information about the chemical is available in these categories:

Misc (1)

Petrarch

[Information about this particular compound](#)

Physical Properties (4)

b)

PTMS

ABCR GmbH&Co KG

Phenylmethoxysilane, 98%

Phenyltrimethoxysilane, 98%, colorless liq.

Phenyltrimethoxysilane

NIST Chemistry WebBook

Information about this particular compound

Trading (2)

Available Chemicals Exchange

Information about this particular compound

Chemhunting

Enter a Chemical Name, CAS Number, Molecular Formula or Weight.

Use \* for partial names (e.g. ben\*).

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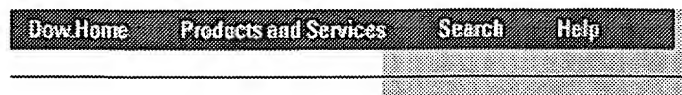
Tel 1 800 315-7300 / 1 617 588-9300 Fax 1 617 588-9390

EU Tel 00 800 875 20000 / +44 1223 464900 EU Fax +44 1223 464990

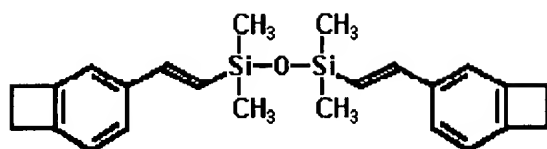
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## BCB Properties



BCB monomer

### Typical Properties


- Dielectric constant ( $\epsilon_r$ ): 2.65  $\epsilon_r$  vs freq.
- Dissipation factor ( $\tan \delta$ ): 0.0008 – 0.002 (1 MHz – 10 GHz)
- High Frequency (400 - 1500 GHz)
- Breakdown voltage:  $3.0 \times 10^6$  V/cm
- Volume resistivity:  $1 \times 10^{19}$  ohm-cm
- Moisture uptake
- Index of refraction vs wavelength
- Infrared spectrum
- UV/visible spectrum
- Transmission spectrum (300-800nm)
- Density : 1.05 (cured film)
- CTE vs temp
- Tg:  $> 350^\circ\text{C}$  % cure vs Tg
- Tensile strength: 87 MPa
- Tensile modulus: 2.9 gpa
- Tensile elongation: 8%
- Stress vs temp
- Thermal stability

### Other Features of BCB Resins

- Excellent planarization:  
CYCLOTENE\* 3000 Series Resin  
CYCLOTENE 4000 Series Resin
- $< 5\%$  shrinkage during cure
- Negligible volatile evolution during cure

- Cure kinetics low cure temperatures (210°C - 250°C) vs rapid cures (seconds-minutes)
- No copper migration
- Film retention
- BCB Processing at University/Technology Centers

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Site Navigation:  [CYCLOTENE Home: Overview](#)

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